17. In a network subject to a previous failure and a subsequent failure, a method for restoring the network comprising the steps of:

overcoming the previous failure using a first protection scheme;

detecting the subsequent failure;

determining that the previous failure can be overcome using a second protection scheme;

determining that the subsequent failure can be overcome using the first protection scheme but can not be overcome by using the second protection scheme;

applying the second protection scheme to overcome the previous failure; and applying the first protection scheme to overcome the subsequent failure.

18. The method of claim 17 further comprising the step of:

determining that the first protection scheme is unable to overcome the subsequent failure because the first protection scheme has already been applied to overcoming the previous failure.

- 19. The method of claim 17 wherein the first protection scheme is designed to circumvent a failure affecting a span in the network using a spare resource within the span and the second protection scheme is designed to circumvent a failure affecting a span in the network using a resource outside of the span.
- 20. The method of claim 17 wherein the step of determining that the previous failure can be overcome using a second protection scheme is based upon a failure type associated with the failure.
- 21. The method of claim 17 wherein the step of determining that the previous failure can be overcome using a second protection scheme is based upon a whether the previous failure is a module failure or a line failure.



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- 22. The method of claim 17 wherein the step of determining that the subsequent failure can be overcome using a first protection scheme is based upon a failure type associated with the subsequent failure.
- 23. The method of claim 17 wherein the step of determining that the subsequent failure can be overcome using a first protection scheme is based upon a whether the subsequent failure is a module failure or a line failure.

IN THE SPECIFICATION

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Please amend the specification as follows:

Page 1, line 11: delete "components" and insert --sites or nodes--;

Page 1, line 11: delete "transfer" and insert --route--;

Page 1, line 12: delete "components" and insert --nodes--;

Page 1, line 12: delete the sentence beginning "Rather than having...";

Page 1, line 19: delete "fiber" and insert --optical channel--;

Page 1, line 22: after "data", insert --rate--;

Page 1, line 22: after the paragraph that ends "...voice calls.", insert a new paragraph as follows: --Multiple links are often employed between nodes to increase communications capacity and to provide back-up in the event of partial failures. The set of links interconnecting a given pair of nodes is referred to as a "span."-;

Page 1, line 23: delete the sentence that begins with "Further bandwidth improvement..." and insert therefor the sentence -- Further bandwidth improvement can be achieved by sending multiple modulated lightwave carriers at different frequencies through a single fiber ;

Page 2, line 3: delete "16 OC-192 erbium band" and insert --at least sixteen OC-192 --;

Page 2, line 4: delete "with WDM." and insert - within the so-called "erbium

band."f-;

Page 2, line 22: delete "channel" and insert --link--;

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